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(71) Applicant and

(72) Inventor: MILLER, Balthasar [CH/CH]; Heideggweg 6,
CH-5000 Aarau (CH).

(74) Agents: HASLER, Erich et al.; Riederer Hasler & Partner
Patentanwlte AG, Elestastrasse 8, CH-7310 Bad Ragaz
(CH).

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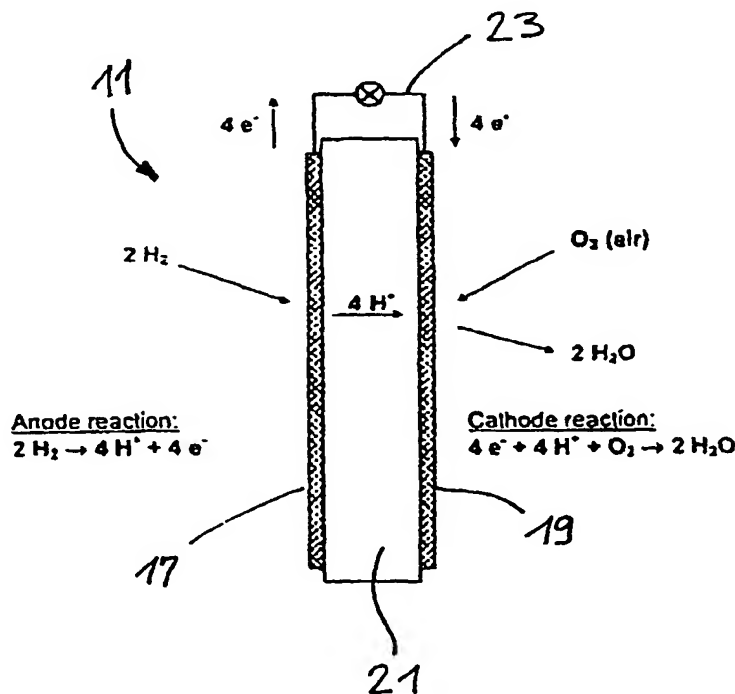
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(54) Title: PROCESS TO MANUFACTURE AN ION-PERMEABLE AND ELECTRICALLY CONDUCTING FLAT MATE-
RIAL, THE MATERIAL OBTAINED ACCORDING TO THE PROCESS, AND FUEL CELLS



(57) Abstract: A fibrous, flat and ion-per-
meable material made of synthetic fibers, in
particular of synthetically spun fibers such as
acrylic fibers or aramid fibers, is processed
into staple fibers of a specific length and then
fibrillated. In a wet-laid inclined machine (paper
machine), the fibrillated fibers are formed into
a continuous web and then the web or portions
of it are subjected to a temperature treatment
to make the web electrically conducting by
carbonizing/graphitizing the web through
heating.

INTERNATIONAL SEARCH REPORT

Intern. Application No
PCT/CH 03/00366

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 D21H25/04 D21H13/18 H01M8/02 H01M8/10 D04H1/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 D21H H01M D04H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	EP 0 834 936 A (MITSUBISHI PAPER MILLS LTD) 8 April 1998 (1998-04-08) claims 1,10,14,16,19,20,22	1-31
A	US 3 047 455 A (ANDERSON NEALIE T ET AL) 31 July 1962 (1962-07-31) the whole document	1-29
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☒ Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

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information on patent family members

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